

Country Club Lawn and Tree Specialists Inc.

Training Manual

New Pilot Training Schedule

All new pilots must complete the following training schedule before operating.

Education

Digital Education
Introduction to UAS Operation
Operations Manual Review
UAS Sub Systems
Spray Mission Concept of Operations
Safe Mission Planning
Pre-Flight Checklist
Maintenance Manual Review
Daily Maintenance Checklist
Software and Training Manual Review
AgroSol Flight Simulator
Li-Po Battery Management
Regulation
Safety

Field Training
Battery Charging
Calibrations
UAS Set-Up
Pre-Flight Checklist
Mission Planning: Field Marking
Mission Planning: Flight Parameters
AgroSol Flight Control
Emergency Procedures: AgroSol Control
Emergency Procedures: Manual Control
Manual Flight Control
Daily Maintenance Checklist

Assessment

Written Assessment
UAS Sub Systems
Safe Mission Planning
Pre-Flight Checks
Daily Maintenance Checklist
Li-Po Battery Management
Safety

Operational Assessment
Mission Planning: 10 Hours Field Marking (15 mission minimum) 15 Missions Generated
Spray Operation: 10 Flight Hours (35 flight minimum)

Recurring Pilot Training Schedule

All pilots must complete the following recurring training schedule **every 6 months** after initial training and certification.

Education

Digital Education
Operations Manual Review
Maintenance Manual Review
Software and Training Manual Review
Li-Po Battery Management
Safety

Field Training
Pre-Flight Checklist
Emergency Procedures: AgroSol Control
Manual Flight Control
Emergency Procedures: Manual Control

Assessment

Written Assessment
Operations Manual Review
Maintenance Manual Review
Software and Training Manual Review
Li-Po Battery Management
Safety
Operations Manual Review

Operational Assessment
Mission Planning: 2 Hours Field Marking (2 mission minimum) 2 Missions Generated
Spray Operation: 2 Flight Hours (7 flight minimum)

Digital Education: Unit Objectives

Mission Computer Set Up	15 min
Software Installation	
Manuals File Transfer	
Introduction to UAS Operation	15 min
State of the Industry	
UAS in Agriculture	
Safety Culture	
Operations Manual Review	20 min
Navigating the Manual	
High Level Review	
Homework Assignment: Study Entire Manual	
UAS Sub Systems	15 min
Propulsion	
Power	
Communications	
Spray	
Sensor (Radar, GPS, IMU)	
Flight Controller	
Spray Mission Concept of Operations	10 min

Standard Mission	
Advanced Mission	
Safe Mission Planning	15 min
Mission Settings	
Drone Settings	
Terrain Considerations	
Pre-Flight Checklist	5 min
Detailed Instructions	
Purpose of Each Check	
Maintenance Manual Review	30 min
Navigating the Manual	
High Level Review	
Homework Assignment: Study Entire Manual	
Daily Maintenance Checklist	5 min
Detailed Instructions	
Purpose of Each Check	
Software and Training Manual Review	30 min
Navigating the Manual	
High Level Review	
Homework Assignment: Study Entire Manual	
AgroSol Flight Simulator	30 min
Practical Software Overview	
Maintenance, Planning, Operations Navigation Practice	
Li-Po Battery Management	10 min
Safe Use and Storage	
Maximize Asset Longevity	
Regulation	10 min
Pesticide Applicator License	
Part 107 License	
44807 Exemption	
Part 137 License	
COA	
Aircraft Registration	
Safety	30 min
Chemical Drift Considerations	
Chemical Management	

Flight Envelope	
Conservative UAS Operation	
Emergency Procedures: AgroSol	
Emergency Procedures: RC	
	Total time: 4 hr

Field Training: Unit Objectives

Battery Charging	5 min
Normal Charge	
Storage Charge	
Accurate Charge	
Calibrations	30 min
Level	
Accelerometer	
Compass	
Flowmeter	
Voltage	
UAS Set-Up	15 min
Set-Up Procedure	
Tear-Down Procedure	
Transport Tips	
Pre-Flight Checklist	15 min
Checklist Tips	
Checklist Practice	
Mission Planning: Field Marking	20 min
Marking Tips	

Marking Practice	
Mission Planning: Flight Parameters	20 min
Drawing Mission Areas	
Mission/Drone Settings Tips	
Mission Creation & Upload Practice	
AgroSol Flight Control	35 min
Flight Control Buttons	
Reading UAS Status Information	
Mission Re-Upload	
Mission Practice	
Emergency Procedures: AgroSol Control	20 min
RTL	
Pause/Move	
Emergency Kill	
Land	
Emergency Procedures: Manual Control	15 min
Manual Takeover	
Force RTL/Land Mode	
Emergency Kill	
Manual Flight Control	20 min
Arm/Disarm	
Take Off/Land	
Flight Control Tips	
Manual Flight Practice	
Daily Maintenance Checklist	15 min
Checklist Tips	
Checklist Practice	
<u>Total time:</u> 3 hr 30 min	